

StorCase® Technology
Data Express®
DE100i-SW
DE100i-SWC

Removable
SCSI Wide Single-Ended
Drive Enclosures
User's Guide

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DE100i-SW

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*SCSI Wide Single-Ended
Drive Enclosures*

User's Guide

Part No. D89-0000-0016 G01 January 2003



**StorCase Technology, Inc.
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Fountain Valley, CA 92708-9885
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Declaration of Conformity

Company Name: StorCase Technology, Inc.

Corporate Office Address: 17600 Newhope Street
Fountain Valley, CA 92708

Manufacturing Address: 17600 Newhope Street
Fountain Valley, CA 92708

Product Name: Data Express DE100

Model Number: DE100i-XSXX/XXX

Conforms to the following standards:

EMC Directives: EN 50081-1: 1992 Generic Emission
(89/336/EEC) - EN 55022/CISPR22 Class B
EN 50082-1: 1992 Generic Immunity
- IEC 1000-4-2 ESD
- IEC 1000-4-3 Radiated Immunity
- IEC 1000-4-4 Electrical Fast Transient

Low Voltage Directive: EN 60950
(73/23/EEC)

Safety Standards: CAN/CSA-C22.2 No. 950-93
CSA (NRTL/C) UL 1950

TUV EN 60950: 1988 EN 60950/A2: 1991
EN 60950/A1: 1990

EMI Standards: FCC Part 15, Class B

EMC Standards: AS/NZS 3548 Information Technology Equipment

Year of Manufacture: 1997

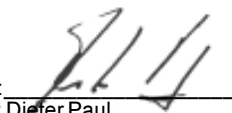
Signature: 
Full name: Dieter Paul
Position: President

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Please check the StorCase web site at <http://www.storcase.com> or contact your StorCase representative for the latest revision of this document.

INTRODUCTION

Packaging Information

The StorCase Technology Data Express® system is shipped in a container designed to provide protection and prevent damage during shipment. The Data Express unit was carefully inspected before and during the packing procedure at the factory. Bent or broken connectors, or evidence of other damage to the Data Express should be reported to the shipper immediately. Refer to Figure 1 for the package contents.

If the wrong Data Express model has been received, please call your reseller or StorCase at (800) 435-0642 to arrange for a Return Material Authorization (RMA). StorCase cannot accept returns which do not display an RMA number on the outside of the package. Return the unit with all the original packing materials.

Before removing any component from its packaging, discharge any static electricity by touching a properly grounded metal object.

Serial Numbers

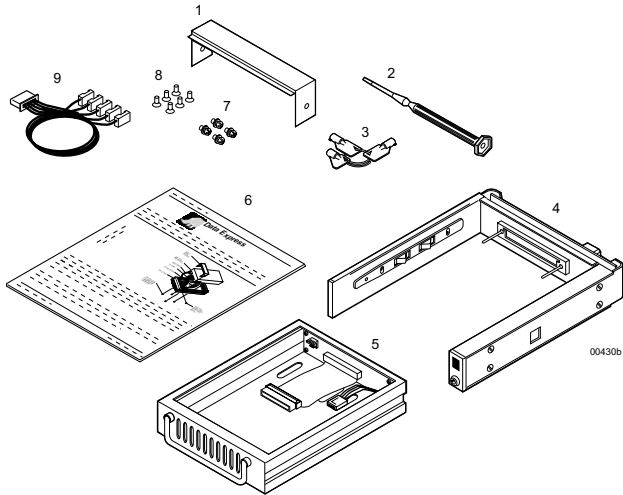
Both the Data Express receiving frame and carrier are labeled with serial numbers. These numbers must be reported to the StorCase Customer Service Representative in order to receive a Return Material Authorization (RMA) for warranty claims. Locate the serial number labels and record the numbers in the spaces provided below.

Receiving Frame:

Drive Carrier:

Package Contents

The DE100 package contents include the following items. If any item is missing or damaged, contact your StorCase dealer for a replacement.



- | | |
|--------------------|--|
| 1. Cable Cover | 7. #6-32 Phillips Machine Hd. Mounting Screws |
| 2. Alignment Tool | 8. #6-32 Phillips Flat Hd. Mounting Screws |
| 3. Drive Lock Keys | 9. 1.25mm/2mm ID Select Cable (DE100i-SW only) |
| 4. Receiving Frame | |
| 5. Drive Carrier | |
| 6. Insert Sheet | |

Figure 1: Package Contents

General Description

The StorCase Technology **Data Express® DE100i-SW** and **DE100i-SWC** are removable drive carriers and receiving frames designed to provide durable and reliable mounting for one (1) 3.5" SCSI drive within a 5.25" half-height peripheral slot (Figure 2).

The DE100 allows a drive to be removed and transported to another DE100-equipped computer or expansion chassis, and also provides the ability to secure sensitive data by removing and storing the drive safely for future use. Up to fifteen (15) DE100 units can be attached to one host adapter.

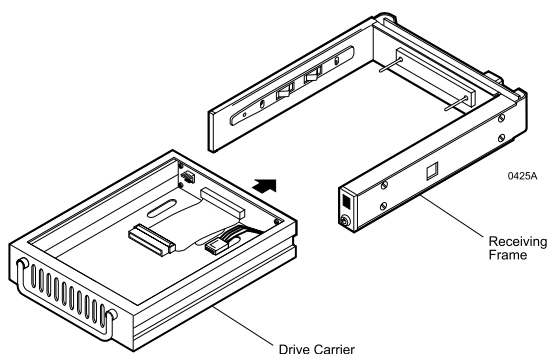


Figure 2: DE100 Receiving Frame and Carrier

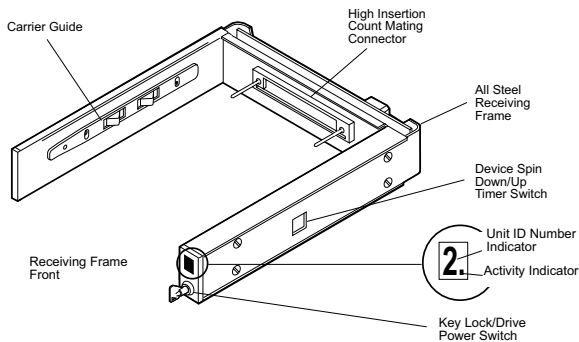
This User's Guide describes the steps required to install the StorCase Data Express (DE100i-SW and DE100i-SWC) removable enclosure inside a computer peripheral bay or external expansion chassis. This guide supplements documentation provided with the host computer system, operating system, and the drive to be installed within the Data Express carrier.

Receiving Frame Front Panel

- **The Key Lock/Drive Power Switch** performs three (3) functions. The key lock assures proper seating of the drive carrier within the receiving frame, turns power to the drive carrier on and off, and prevents unauthorized removal or installation of the carrier. For the computer to access data on the DE100 disk drive, the key must be turned counterclockwise to the locked position.

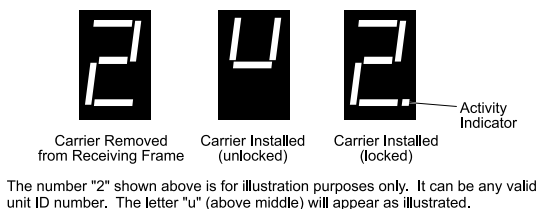
The key may also be permanently attached (optional) to the locking mechanism as shown in Appendix C.

- **The Unit ID Number Indicator** (Figure 4) displays the physical address of the DE100 drive carrier when the carrier is *Installed and Locked* in the receiving frame or *Removed* from the receiving frame. If the drive carrier is *Installed but Not Locked*, a "u" will be displayed to indicate an unlocked condition. The unit ID number is selected by means of the unit ID select switch inside the receiving frame using a special alignment tool supplied with the DE100. This procedure is explained later during the installation process.
- **The Activity Indicator** is a small dot next to the Unit ID Number which illuminates to show when the host computer is accessing the data on the DE100 carrier. This dot will flash during communication with the host computer.
- **Device Spin Down/Up Timer** may be disabled by removing Jumper J6 P1-P2 (Figure 5). This feature allows the receiving frame unit number display to provide a visual indication of drive spin down/up activity. Refer to Figure 11 for switch settings.



0231A

Figure 3: Receiving Frame Front Panel



0064

Figure 4: Receiving Frame Unit ID Number and Activity Display

Receiving Frame Rear Panel

- **I/O Connector (J2):** The input/output connector provides a standard interface for all SCSI signals.
- **DC Power Connector (J3):** The DE100 uses a standard 4-pin DC Power Connector to accept DC power.
- **ID Select Pins (J4):** Pins 1-14 are reserved. Pins 15-20 of this connector provide unit SCSI ID selection for the computer system or expansion chassis. For remote ID selection through an expansion chassis, the unit ID must be set to "0" or open (no jumpers installed) on these pins. See Table 2 for J4 pin assignments.
- **Enable Termination Power To/From SCSI BUS (W1):** This jumper is installed at the factory.
- **Onboard Termination (W2):** Position "A" is installed at the factory and will disable termination. Moving the jumper to Position "B" will enable onboard termination.

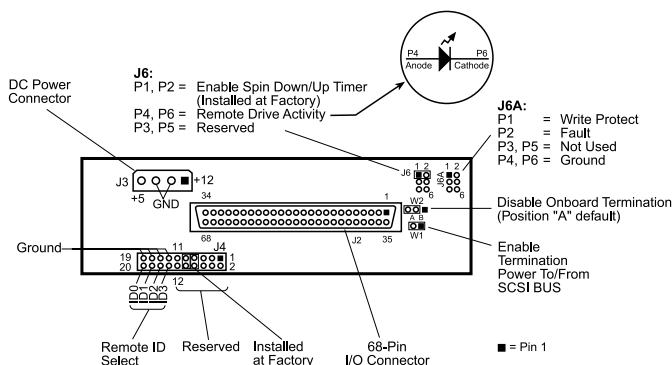


Figure 5: Receiving Frame (Rear View)

INSTALLATION

Installing the Drive into the Carrier

Preparation

While performing the steps in this section, work on a soft surface to prevent excessive shock to the drive being installed. Also refer to the manufacturer's documentation provided with the drive.

NOTE: A #2 Phillips screwdriver will be required during this procedure.

1. Remove the drive from its protective packaging.
2. **Plastic Drive Bezel:** If the drive came equipped with a plastic front bezel, it must be removed.
3. **SCSI Drive Termination:** Disable or remove the termination resistor packs from the drive. Termination is handled by an external terminator in the DE100 receiving frame. Refer to the documentation provided by the drive manufacturer for the location of these terminators or jumpers.
4. **SCSI Drive ID Select Jumpers (DE100i-SW only):** Locate the SCSI ID Select Jumper positions on the disk drive, and remove any jumper plugs in this area. The SCSI ID cable will be installed into this section of the drive.
5. **SCSI ID Cable (DE100i-SW only):** (Figure 7) The DE100i-SW carrier is supplied with one (1) 5-wire cable. This cable is used for remote ID selection by means of the DE100i-SW Unit ID Select Switch inside the receiving frame. The cable is designed to connect to drives with 2mm ID Select connectors.

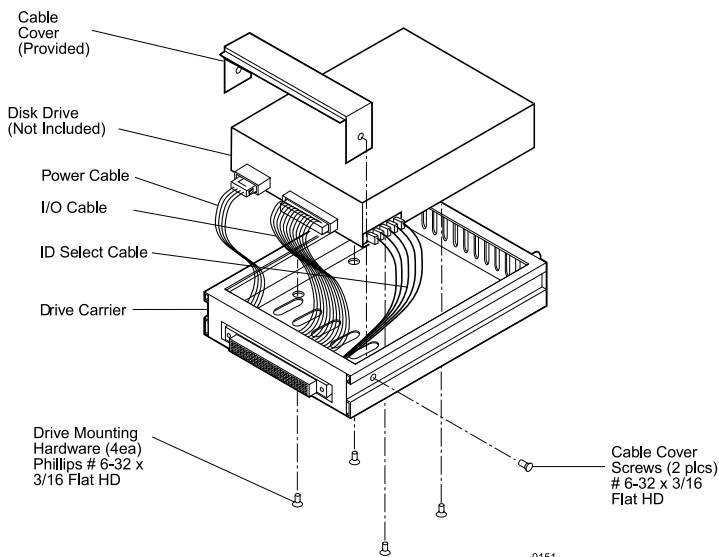
The cables are made up of **black**, **brown**, **red**, **orange**, and **yellow** wires. The **black** wire is plugged into the pin used to select ID0, the **brown** wire plugs into the pin for ID1, the **red** wire plugs into the pin for ID2, and the **orange** wire connects to ID3. Most drive manufacturers mark these pins with some sort of identification which corresponds to ID0, ID1, ID2, and ID3. The **yellow** wire plugs into the drive activity LED pin.

Disk drives use a row of pins to provide ground to the ID signals. This row of pins is not used when installing the ID select cable to the carrier connector. Refer to the drive manufacturer's documentation for more information.

Installation

(DE100i-SW only)

1. Attach the I/O cable from the rear distribution board of the DE100i-SW carrier to the disk drive (Figure 6A).
2. Attach the 4-pin DC power cable from the rear distribution board to the disk drive (Figure 6A).
3. Install the 5-pin ID select cable into the rear signal distribution board connector. Refer to Figure 7 for a typical 2mm drive pin connection.
4. Carefully insert the drive into the carrier at an angle, cable-end first. **Make sure that none of the cables are pinched.** Lower the front of the drive carefully into place. Fasten the drive into the carrier with four (4) #6-32 Phillips Flat Hd. screws provided.
5. Attach the provided cable cover with two (2) #6-32 Phillips Flat Hd. screws.

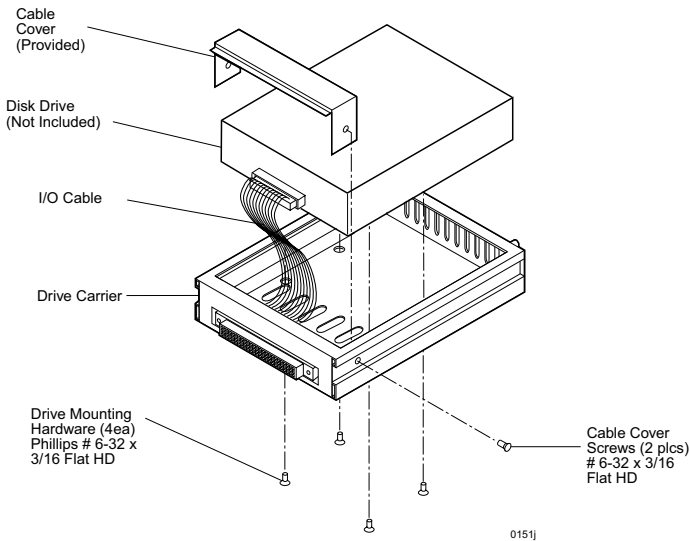


*Figure 6A: Drive Installation Assembly
(DE100i-SW)*

Installation

(DE100i-SWC only)

1. Attach the I/O cable from the rear distribution board of the DE100i-SWC carrier to the disk drive (Figure 6B).
2. Carefully insert the drive into the carrier at an angle, cable-end first. **Make sure not to pinch the cable.** Lower the front of the drive carefully into place. Fasten the drive into the carrier with four (4) #6-32 Phillips Flat Hd. screws provided.
5. Attach the provided cable cover with two (2) #6-32 Phillips Flat Hd. screws.



*Figure 6B: Drive Installation Assembly
(DE100i-SWC)*

TYPICAL 2MM DRIVE ID PIN CONFIGURATION

NOTE: Applies to the DE100i-SW only.

Figure 7 illustrates a typical SCSI ID select connection to a drive with 2mm ID select pins. The wires on the wire harness connect to the positive pin (or signal pins) on the disk drive. In some cases, the drive manufacturer will label the signal pins as Pin 1, 3, 5, 7, (instead of 0, 1, 2, 3 as shown in Figure 7 below). Also, in some cases, the even-numbered Pins 2, 4, 6 are used for Ground.

Attach the ID select cable to the drive using the 2mm connectors. Align the "ID0" pin with the **black** wire. Attach the 1.25mm connector on the other end of the ID select cable to the 1.25mm connector (J3B) provided on the signal distribution board, located inside the carrier. Refer to the manufacturer's documentation to disable termination on the drive.

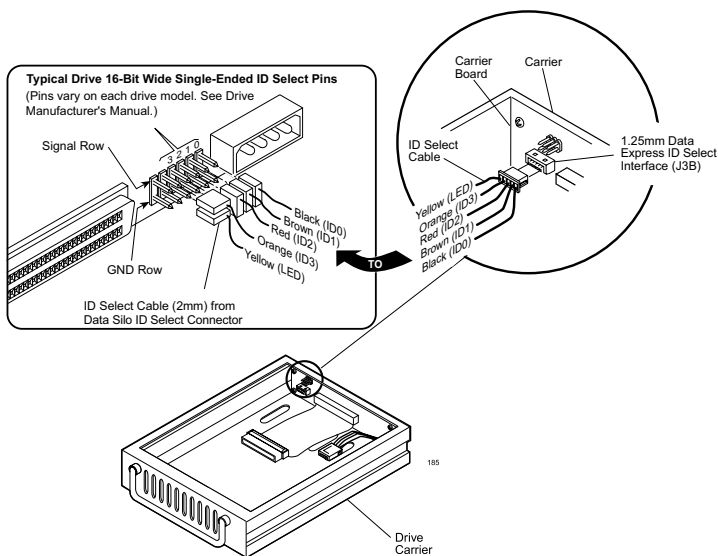


Figure 7: Typical SCSI ID Select Connections (2mm Drive Pins)

Installing the Receiving Frame

The drive should be installed into the carrier before installing the receiving frame into the mounting bay of a computer or expansion chassis.

NOTE: Use a #2 Phillips screwdriver during this procedure.

1. Turn OFF power to the computer.
2. Open the computer system according to the manufacturer's instructions. If necessary, temporarily remove any expansion boards that may make installation difficult.
3. To select the DE100 unit ID remotely through the computer system or external expansion chassis, the appropriate cable from the system must be connected to the ID select connector (J4) on the rear of the receiving frame as shown in Table 1 and Figure 8.

Table 1: Receiving Frame Motherboard Connector J4 Pin Configuration

Pin 1	RESERVED	Pin 11	RESERVED
Pin 2	RESERVED	Pin 12	RESERVED
Pin 3	RESERVED	Pin 13	Ground
Pin 4	RESERVED	Pin 14	ID3
Pin 5	RESERVED	Pin 15	Ground
Pin 6	RESERVED	Pin 16	ID2
Pin 7	RESERVED	Pin 17	Ground
Pin 8	RESERVED	Pin 18	ID1
Pin 9	RESERVED	Pin 19	Ground
Pin 10	RESERVED	Pin 20	ID0

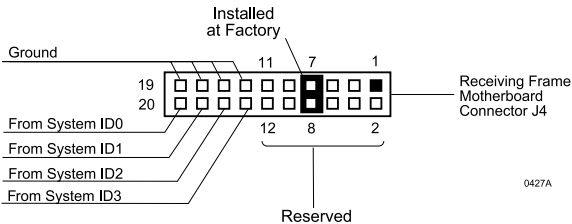


Figure 8: Receiving Frame Connector J4 Pin Configuration

IMPORTANT NOTE: In order to use remote ID selection from a computer or expansion chassis, the Unit ID number on the DE100 receiving frame must be set to "0" with the provided alignment tool. Refer to the section "*Selecting the Unit ID Number*" later in this manual for the Unit ID selection procedure.

4. With the drive carrier locked in place inside the receiving frame, install the DE100 into the 5.25" drive opening in the computer or expansion chassis. Use the appropriate guides to position the DE100, and fasten it into place with the four (4) #6-32 Phillips screws provided. Figure 9 illustrates the location of the mounting holes. Mounting holes are provided on each side and the bottom of the receiving frame to accommodate a variety of mounting configurations. Use the mounting holes which best suit the computer or expansion chassis configuration.

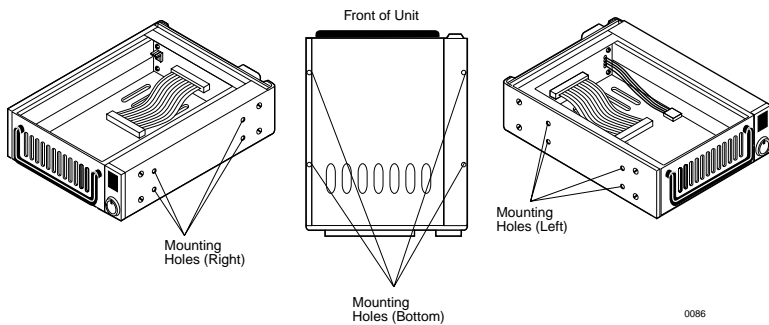


Figure 9: Receiving Frame Mounting Holes

5. Adjust the front of the receiving frame so the carrier slides freely in and out on the receiving frame guides. The position of adjoining peripheral units may require adjustment.
6. To connect the drive to a Remote Activity LED in the computer system or expansion chassis, connect the appropriate cable(s) to the receiving frame motherboard as shown in Figure 5. Connect J6 Pins 4 & 6 to a remote activity LED.
7. Connect the I/O cable from the host adapter to the receiving frame. The Pin 1 indicator on the cable must be properly aligned. Refer to Figure 5 for the correct Pin 1 location.

Make sure that only the last SCSI device is terminated. If the DE100 is at the end of a daisy chain, the terminators on the receiving frame **must** be enabled. If the DE100 is in the middle of a daisy chain, termination should be disabled. Refer to jumper W2 in Figure 5.

8. Connect the power cable from the DC power supply in the computer or expansion chassis to the power connector on the DE100 receiving frame. Refer to Figure 5 for the DE100 receiving frame power connector location.
9. Replace any expansion boards that may have been removed earlier. Replace the system cover according to the manufacturer's instructions.
10. Reconnect any system or peripheral cables removed earlier.
11. Turn ON power to the computer. If the installation has been successful, and all cables have been properly attached, the system should boot normally. Although the computer may not recognize the DE100 yet, the appropriate front panel LED indicators should illuminate.

NOTE: The lock on the DE100 receiving frame functions as a lock and a DC power switch for the carrier unit. The lock must be engaged (turned counterclockwise) in order to supply power to the carrier and installed drive unit.
12. The new drive may need to be formatted or initialized prior to use with the operating system and applications software. Refer to the drive and/or computer manufacturer's documentation for formatting information.

Selecting the Unit ID Number

1. Verify that power is turned on to the DE100 receiving frame by turning on the computer or external expansion chassis. A number should appear in the unit ID display window if the carrier is locked in place.
2. Unlock the DE100 drive carrier and remove it from the receiving frame. A "u" will be displayed initially when the unit is unlocked but will return to a number when the carrier is removed from the receiving frame.

WARNING: Unlocking the carrier unit switches DC power off to the drive. Since disk drives require a short amount of time to spin down, allow about 15 seconds before pulling the carrier unit out of the receiving frame to avoid possible damage to the drive.
3. Use the alignment tool supplied with the DE100 to select the ID number of the disk drive. Refer to Figure 10 for the location of the Unit ID Select Switch inside the receiving frame.
4. After selecting an appropriate unit ID number, replace the DE100 carrier in the receiving frame, and **LOCK IT IN PLACE.**

NOTE: The lock on the DE100 receiving frame serves two functions: 1) as a lock to secure the drive; and 2) as a DC power switch for the carrier unit. The lock must be engaged (turned counterclockwise) in order to supply power to the drive carrier.

- 5. The new drive may need to be formatted or initialized prior to use with the operating system and applications software. Refer to the drive and/or computer manufacturer's documentation for formatting information.

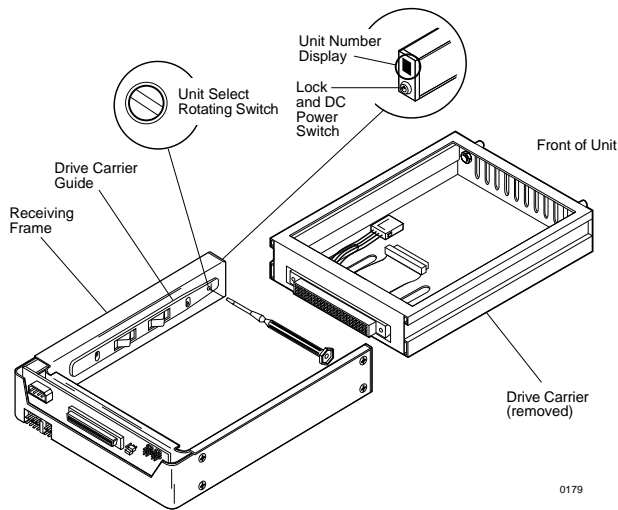


Figure 10: Unit ID Select Switch Location

Table 2: 16-Bit Wide Single-Ended Unit ID Display

DISPLAY (HEX)	UNIT NUMBER ₍₁₀₎	DISPLAY (HEX)	UNIT NUMBER ₍₁₀₎
0	0	8	8
1	1	9	9
2	2	A	10
3	3	b	11
4	4	C	12
5	5	d	13
6	6	E	14
7	7	F	15

0147

Adjusting the Spin Down/Up Timer

NOTE: The timer for device spin down is controlled by a small selector, located in a cutout on the side of the DE100 receiving frame as shown in Figure 11. When the key is turned to the OFF position, and when the timer receives a No SCSI Activity signal from the Hot Swap Board, it waits the specified delay time before displaying a "u" on the front panel of the receiving frame. The amount of time required for a disk drive to spin down is approximately 15 seconds or more. This number can vary depending on the type of SCSI device and manufacturer (e.g. a Seagate Barracuda may require 45 seconds). The factory configuration is set for 20 seconds. A different delay time may be selected with the provided alignment tool. Refer to the SCSI device manufacturer's manual for more information on required device spin down time.

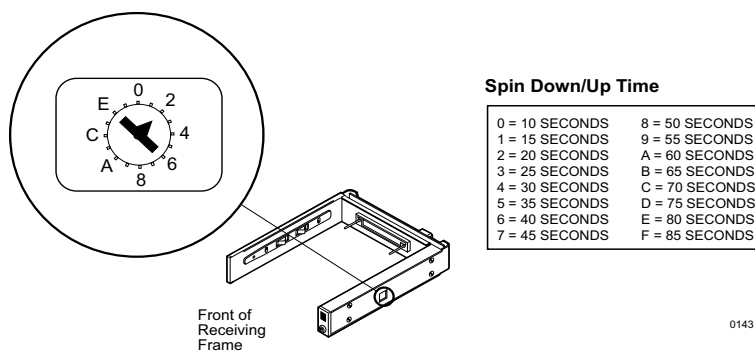


Figure 11: Device Spin Down/Up Timer

APPENDICES

Appendix A - Specifications/Dimensions

SCSI Data Express subsystems conform to the Small Computer Systems Interface (SCSI) Standard set by the American National Standards Institute (ANSI).

Environmental Specifications		
	Operating	Storage
Ambient Temperature	-5° C to 50° C	-45° C to 75° C
Relative Humidity ⁽¹⁾	10% to 80%	10% to 90%
Altitude	-1000 to 50,000 ft -304m to 15240m	-1000 to 50,000 ft -304m to 15240m
Shock ⁽²⁾	10g	60g

⁽¹⁾Non-condensing with maximum gradient of 10% per hour.

⁽²⁾11 msec pulse width 1/2 sine wave.

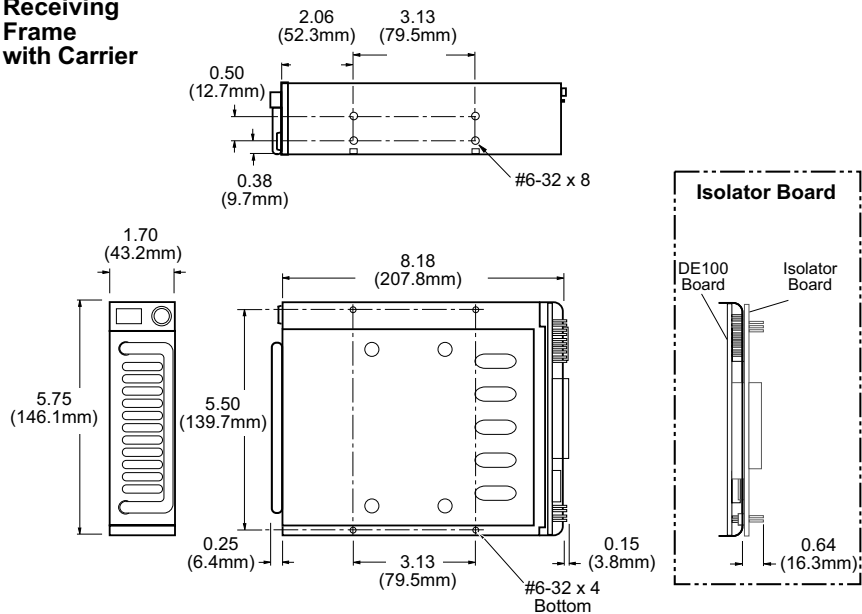
Physical Specifications	Carrier	Receiving Frame
Height	1.68" (42.7mm)	1.70" (43.2mm)
Width	4.67" (118.6mm)	5.75" (146.1mm)
Depth	7.38" (187.5mm)	8.18" (207.8mm)
Weight	1.2lb (0.55kg)	1.3lb (0.59kg) ⁽¹⁾

⁽¹⁾With carrier removed.

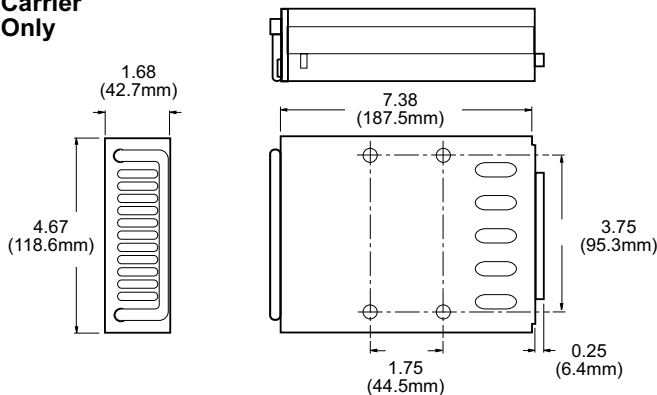
Chassis Reliability/Maintainability	
MTBF	500,000 Hours
MTTR	5 Minutes
Preventive Maintenance	None

Electrical Specifications		
Input	+5V	65mA
	+12V	400µA

**Receiving
Frame
with Carrier**



**Carrier
Only**



0285A

*Figure A-1: DE100 Physical Dimensions
(Dimensions are for reference only)*

Appendix B - Factory-Installed Options

DE100 Hot Swap Board

The DE100 SCSI Hot Swap Board (P/N DX100-SW/H) allows the installation, removal or exchange of DE100i-SW and DE100i-SWC carriers while your computer system is operating by monitoring and protecting the computer system and other peripheral devices on the SCSI Bus. The Hot Swap option eliminates the need to shut down your system when adding or removing a SCSI device by performing two functions:

1. Delays power up/down of the drive until the time period between SCSI bus cycles. This prevents the interruption of any SCSI bus activity by other devices on the bus.
2. Prevents drive power sequencing from generating noise on the SCSI bus, thus preventing data transfer corruption on other devices.

Please note that, whereas UNIX and Apple-based systems provide mount/dismount drive commands, most PC systems do not provide such a feature. When using one of these operating systems, it may be necessary to reboot the computer after adding or changing a drive. This reboot activity will force the SCSI host adapter to rescan its SCSI bus for physically attached drives, and will then be able to access the new or changed drive.

Attaching the Hot Swap Board

The DE100i-SW and DE100i-SWC may be purchased with the Hot Swap option factory-installed. If the Hot Swap Board has not already been attached to the receiving frame, follow the instructions below to add the Hot Swap Board:

NOTE: The drive carrier must be installed in the receiving frame when removing or attaching the Hot Swap Board to ensure proper alignment between the motherboard and the disk drive.

1. Remove the two (2) Phillips head machine screws from the receiving frame motherboard and set the screws aside (Figure B-1).
2. Remove jumpers on the receiving frame motherboard locations J4 - Pins 7 & 8, and J6 - Pins 1 & 2 (Figure 5). Also make sure that W2 is set to Position "A" (default setting) to disable onboard termination from the receiving frame motherboard.
3. Attach the two (2) provided stand-offs into the receiving frame motherboard holes in place of the two removed screws. Carefully align the connectors of the Hot Swap Board with the connectors on the receiving frame board and gently push the Hot Swap Board into position. Make certain that all connectors are properly mated.

4. Attach the Hot Swap Board to the receiving frame motherboard by using the two screws removed earlier and insert them through the Hot Swap Board into the stand-offs.

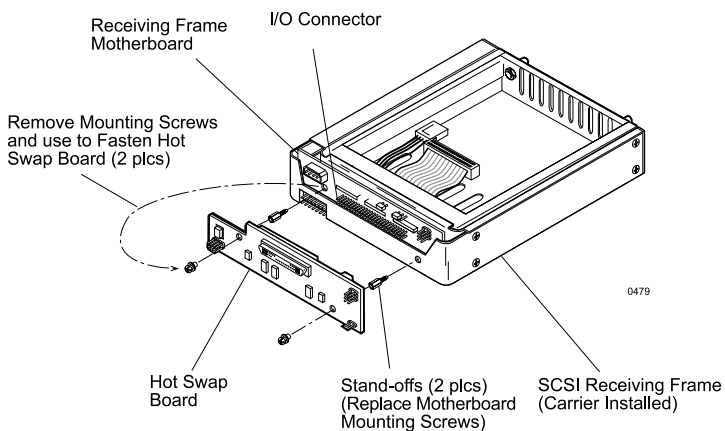


Figure B-1: Attaching the Hot Swap Board

Carrier Removal

Follow the procedures below to remove the DE100 carrier from the receiving frame equipped with the Hot Swap option.

1. Verify that the drive is not active. If the system is on a network, make certain other users are not accessing the target drive, then disable it from the network. Dismount the drive.
2. Turn the DE100 key lock mechanism (located on the front of the receiving frame), clockwise to the OFF position. This unlocks the drive from the receiving frame and activates the Hot Swap Board. The unit ID number on the display will begin flashing.

WARNING: Be careful not to remove or disturb the carrier unit at this point. Although the carrier is physically unlocked, the drive requires a minimum of 15 seconds to spin down and is subject to vibration and possible damage during this period.

3. As the unit ID number flashes, the Hot Swap Board monitors the activity of the SCSI bus. When activity is no longer present, the Hot Swap Board will remove power from the drive and then remove the device from the SCSI Bus. The unit number will continue to flash during this period.
4. After a short length of time the unit display will turn from a flashing unit number to a steady "u", indicating that the device is powered down, unlocked and ready to be removed from the receiving frame.

Carrier Installation

Follow the procedures below to install the DE100 carrier into the receiving frame equipped with the Hot Swap option.

1. Install the carrier into the receiving frame. A "u" will be present on the front panel.
2. Turn the key lock mechanism, located on the front of the receiving frame, counterclockwise to the ON position. This locks the drive into the receiving frame and activates the Hot Swap Board. The drive will begin to spin up and the unit number on the display will begin flashing.
3. After a short length of time the unit display will stop flashing, indicating that the device is ready to be used.

Jumper Options

The jumpers on the Hot Swap Board are similar to those on the standard SCSI Data Express Motherboard. See Figure B-2 for the Hot Swap Board jumper options. **Make sure the factory-installed jumper is attached to J4 - Pins 1 & 2.**

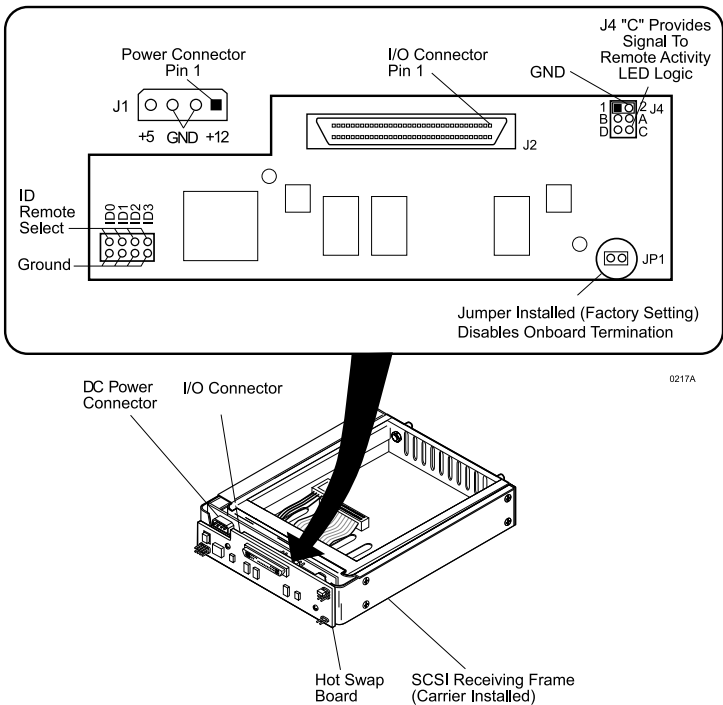


Figure B-2: Hot Swap Board Jumper Options

Solenoid Drive Lock

The factory installed solenoid option prevents premature removal of the carrier and drive unit until the target drive has fully spun down. For most disk drives, this period of time can range from 15-40 seconds, depending on the type of drive being used (e.g. Seagate Barracuda drives require up to 50 seconds). Refer to the drive manufacturer's documentation for specific drive information.

The solenoid lock is controlled by a timing switch located on the side of the receiving frame. Refer to the section "*Adjusting the Spin Down/Up Timer*", for information describing the readjustment of the timer setting.

The solenoid option provides an extra step in drive protection by preventing the removal and movement of the drive until the drive motor has fully stopped.

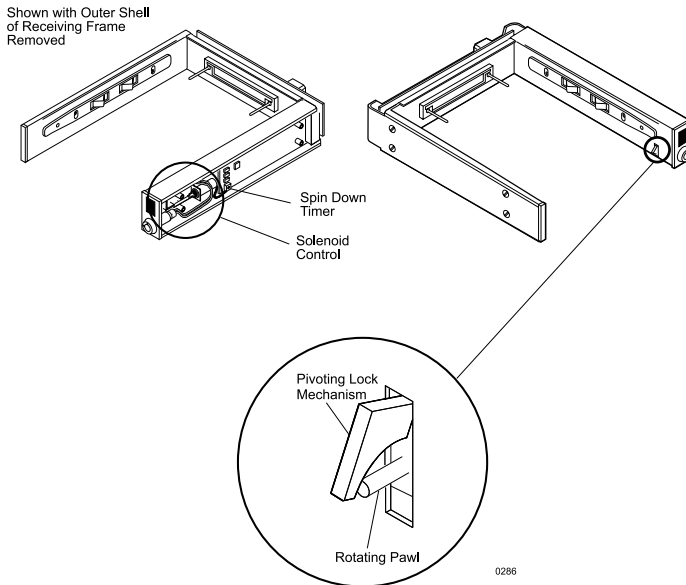
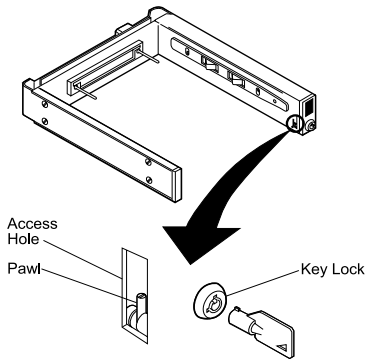


Figure B-3: Solenoid Mechanism

Appendix C - Attaching the ON/OFF Key

The following information describes the necessary steps to attach the ON/OFF key to the key lock mechanism so that it is non-removable, preventing accidental key loss. The procedure can be reversed at a later date to revert back to a removable key.



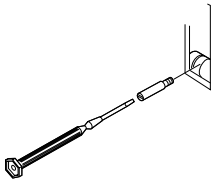
1. Make certain power is OFF to the receiving frame.

Locate the rectangular shaped key lock mechanism access hole on the inside of the receiving frame. Note that the pawl is in an upright position.

Insert the key into the key lock.



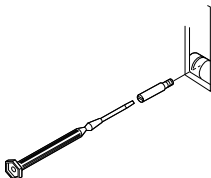
2. Rotate the key 90 degrees counterclockwise so that the pawl is visible in the access hole as shown in the figure at left.



3. Using the provided alignment tool, unscrew and remove the pawl from the access hole.



4. Rotate the key 180 degrees clockwise (or counterclockwise).



5. Reinstall the pawl into the access hole with the alignment tool.

Your key is now attached to the key lock mechanism.

0156

Figure C-1: Attaching the ON/OFF Key

Appendix D - Optional Accessories

Carrying Case

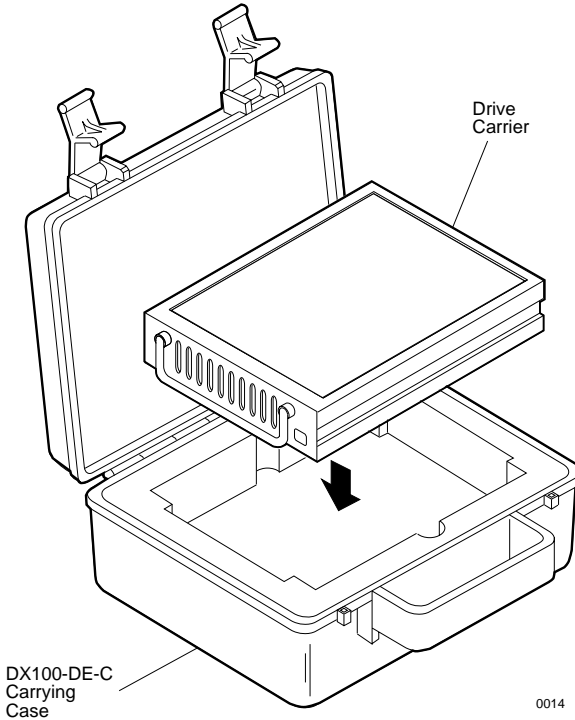


Figure D-1: Carrying Case

The optional molded plastic carrying case is designed to transport the DE100 carrier from one site to another in a safe, impact and moisture resistant environment. Its compact dimensions, 7" long x 9" wide x 3.5" high, make it easy to carry and to store. The foam lining is contoured to fit a single Data Express carrier. Contact your StorCase dealer for further details and ordering information.

Drive Cover

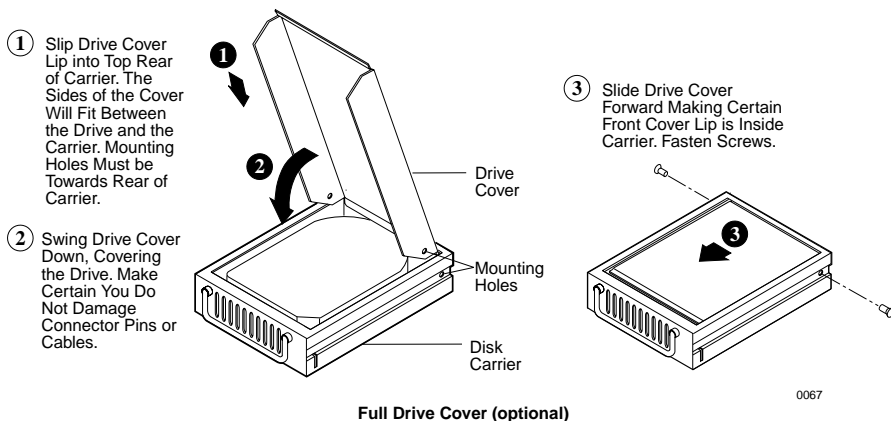


Figure D-2: Full Drive Cover

The full drive cover (P/N DX100-COV) is an attractive metal cover which can provide additional protection to the drive, preventing foreign material from coming in contact with the drive and cables. The full drive cover is similar to the cable cover provided with the DE100i-SW and DE100i-SWC except the full drive cover protects the drive as well as the cables. It is easily installed with two (2) #6-32 Phillips Flat Hd. screws as shown in the illustration above.

NOTE: The drive cover may not be compatible with all 3.5" half-height drives. Exact drive height and fit within the DE100i-SW and DE100i-SWC frame can vary between drive manufacturers. Please contact StorCase for technical assistance before ordering the drive cover.

Drive Plug

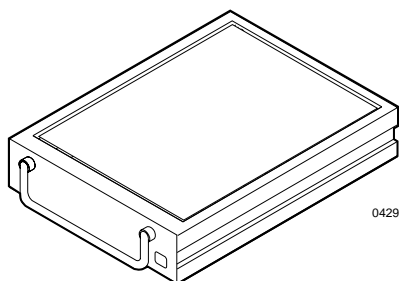


Figure D-3: Drive Plug

The drive plug (P/N DX100-PLUG), is designed to fill system or external enclosure bays that are occupied by receiving frames that have no carrier units installed. The purpose of the plug is to provide an attractive and functional method of directing proper air flow to the other installed devices in the system or external enclosure.

Reader's Comments

Please take a few moments when your computer system is up and running to send us your ideas and suggestions for improving our products and documentation. Did the installation go smoothly for you? Are there any changes you would like us to make, either with the hardware itself, or with the installation instructions? Everyone at StorCase Technology is working toward the goal of providing you with the highest quality, most cost effective, products available on the market, and we need your comments to guide our efforts. We look forward to hearing from you soon!

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